

Title (en)

Adaptive pilot structure to assist channel estimation in spread spectrum systems

Title (de)

Adaptive Pilotstruktur zur Hilfe bei der Kanalschätzung in Spreizspektrumsystemen

Title (fr)

Structure pilote adaptative visant à assister une estimation de voie dans des systèmes à étalement du spectre

Publication

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Application

EP 12193779 A 20060825

Priority

- EP 06783151 A 20060825
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- AU 2006203697 A 20060825

Abstract (en)

[origin: WO2007024027A1] The present invention relates generally to methods for generating a dynamic pilot symbol structure in spread spectrum communication systems, and in particular to the use of pilot symbols by user equipment in channel estimation. In one form, the method includes, allocating basic pilot symbols (402) at the beginning of each data chunk (404, 406) and spread over the plurality of sub-carrier frequencies; and selectively replacing data symbols (408) in each data chunk (400) with adaptive pilot symbols (410) according to the speed of the user equipment.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] WO 2004056022 A2 20040701 - KOREA ELECTRONICS TELECOMM [KR], et al
- [X] NTT DOCOMO: "Pilot Channel and Scrambling Code in Evolved UTRA Downlink", 3GPP DRAFT; R1-050589_PILOT CHANNEL AND SCRAMBLING CODE IN EVOLVED UTRA DOWNLINK, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Sophia Antipolis, France; 20050616, 16 June 2005 (2005-06-16), XP050111407

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JP 2006317290 W 20060825; AU 2006203697 A 20060825; CN 200680031218 A 20060825; CN 201210495606 A 20060825; CN 201210497389 A 20060825; EP 06783151 A 20060825; EP 12193779 A 20060825; EP 12193780 A 20060825; JP 2008505675 A 20060825; JP 2012105301 A 20120502; JP 2012168454 A 20120730; US 201213346431 A 20120109; US 201213633564 A 20121002; US 201213633603 A 20121002; US 6472706 A 20060825